

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 59-217709

(43)Date of publication of application : 07.12.1984

(51)Int.CI. C08F255/02
C08F 8/46
// (C08F255/02
C08F220/00
C08F222/00)

(21)Application number : 58-090798 (71)Applicant : MITSUI PETROCHEM IND LTD

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(54) MODIFIED PROPYLENE POLYMER HAVING LOW MOLECULAR WEIGHT AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To obtain the titled polymer having a specific physical property and low content of gelatinous modified polymer, and giving a coating film having excellent heat resistance, hardness and adhesivity, by grafting an unsaturated carboxylic acid derivative to a linear propylene oligomer.

CONSTITUTION: A linear propylene oligomer is made to react with an unsaturated carboxylic acid derivative selected from unsaturated carboxylic acid, its anhydride and its ester, under heating, to obtain the objective polymer wherein the propylene oligomer has a propylene content of 60W100wt% and other 2W20C α -olefin content of 0W40wt%, an intrinsic viscosity $[\eta]$ of 0.03W0.8dl/g measured in decalin at 135° C, a molecular weight distribution (represented by Mw/Mn) of 1W8, a melting point of 120W165° C, a softening point of 50W160° C, and a crystallinity of 20W65%. The ratio of the grafted unsaturated carboxylic acid component is 0.01W20g, the content of the gelatinous modified polymer is \leq 0.05g, and the amount of the terminal vinyl group is \leq 0.005mol per 100g of the propylene oligomer.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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